

Please note the following amendments in the application.

IN THE SPECIFICATION

Please delete the second paragraph of page 7, and the first four paragraphs of page 8, and replace it with the following:

To improve the above mentioned drawbacks, the applicant has developed a new design which consists of at least a cable with a central core (former) around which superconducting tapes are spirally placed, on at least two layers with a laying angle defined by the characteristic that some of the layers adjacent to the core are twisted in a sense and the other, peripheral part of the layers is twisted on the opposite side. Twist pitches of the layers vary from maximum P_{max1} and P_{max2} in medium layers to minimum P_{min1} and P_{min2} in inner and outer layers, while twist angles of the tapes in the layers vary from α_{max1} to α_{min1} and from α_{max2} to α_{min2} and at least one layer of tapes from normally conducting metal is located between the outer surface of the former and the inner surface of the layer,

where for inner layers:

P_{min1} and α_{max1} - minimum pitch and maximum twist angle of tapes in the first layer made of superconducting tapes from the cable axis:

P_{max1} and α_{min1} - maximum pitch and minimum twist angle of tapes in the last from the cable axis layer made of superconducting tapes of the part of layers adjacent to the former and having one direction of lay;

for outer layers: